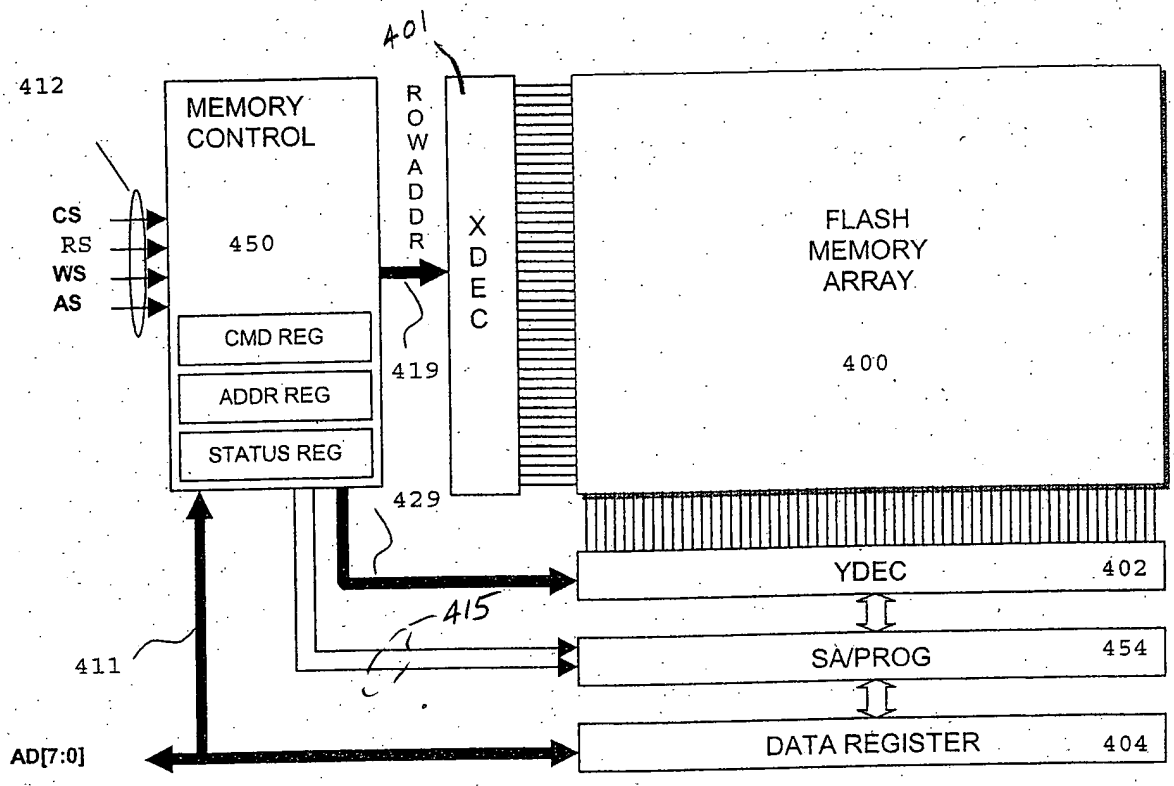

Fig. 1 (Prior Art)

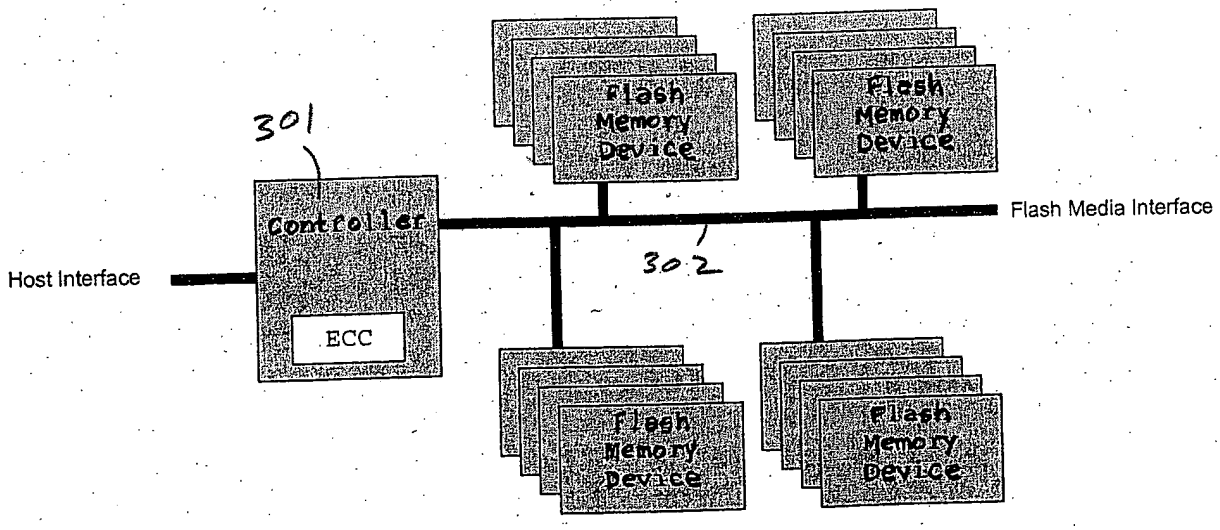

Fig. 2 (Prior Art)

42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE
NATIONAL

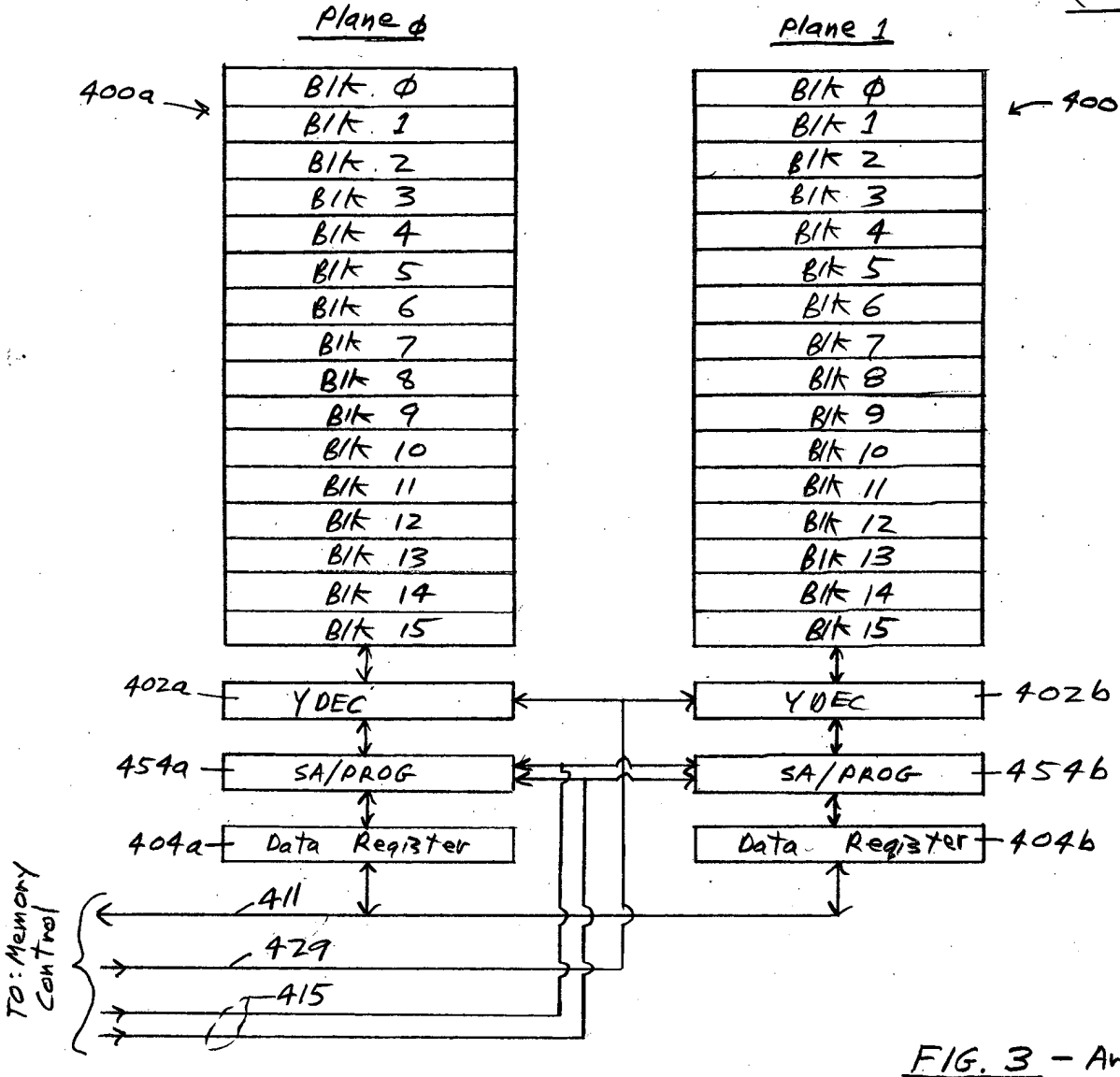

FIG. 3 – Array

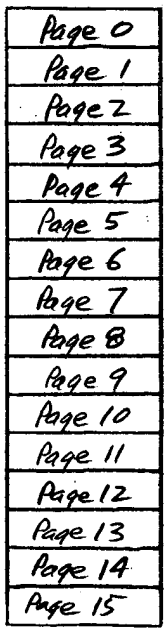

FIG. 4 – Block

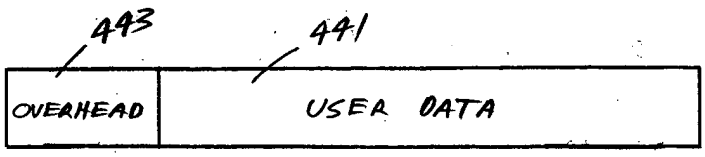

FIG. 5 – Data Sector

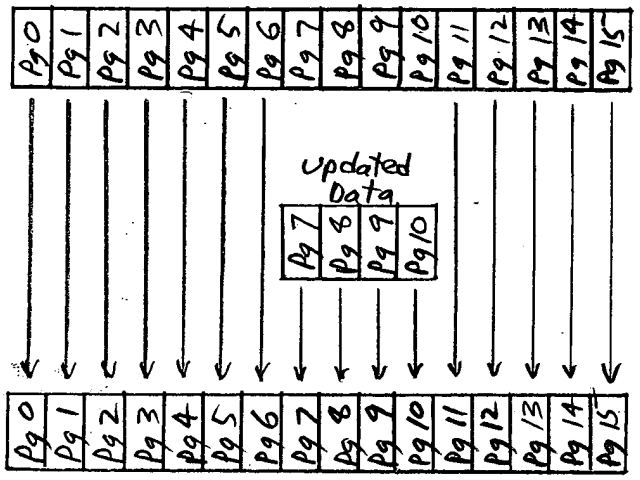

FIG. 6 - Updating Less than all Pages of Block

LBN	PBN
0	0
1	1
2	2
3	3
4	4
5	5

FIG. 7A - Translation Table

LBN	PBN
0	0
1	1
2	2
3	13
4	4
5	5

FIG. 7B - Translation Table

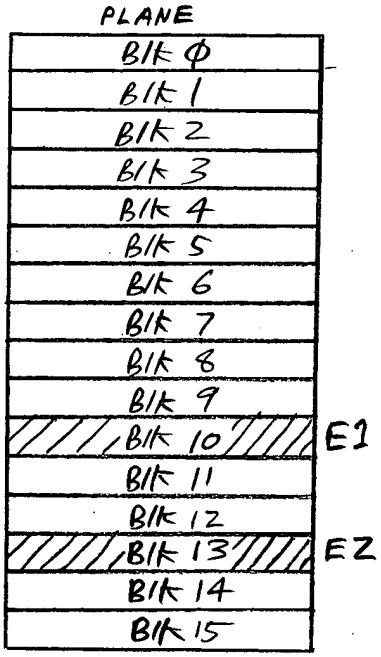

FIG. 8 - Block Assignments In One Plane

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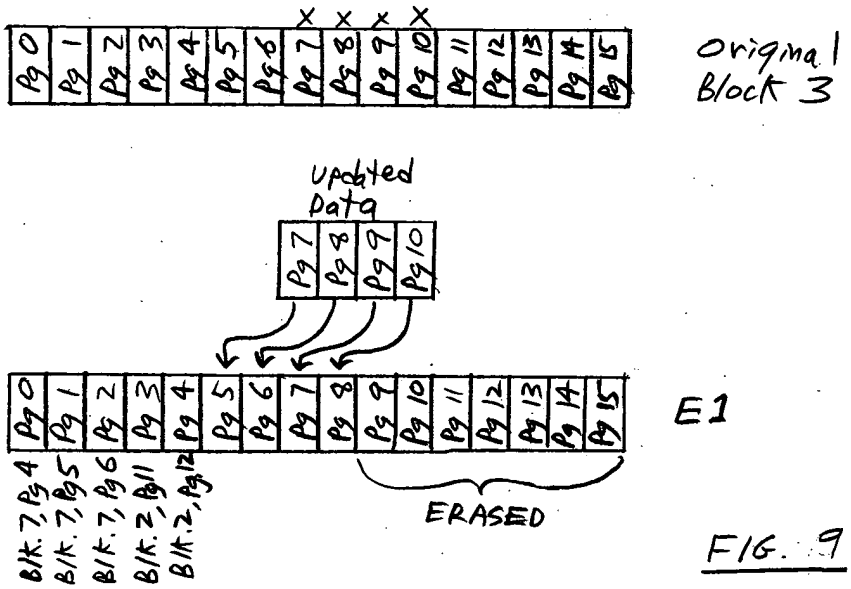

FIG. 9

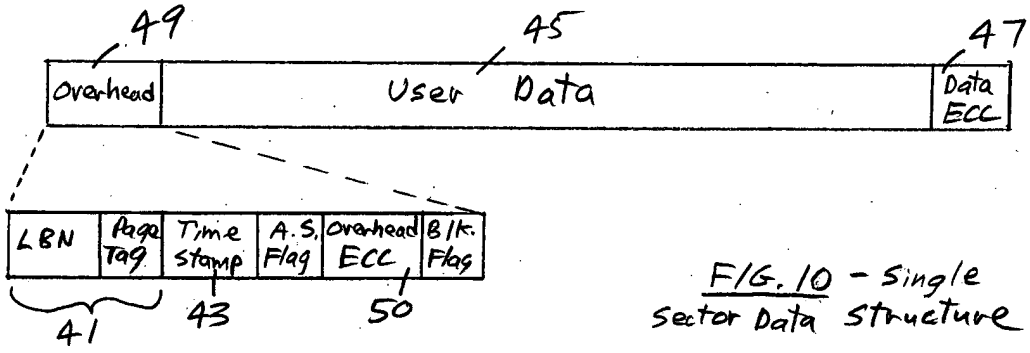

FIG. 10 - Single Sector Data Structure

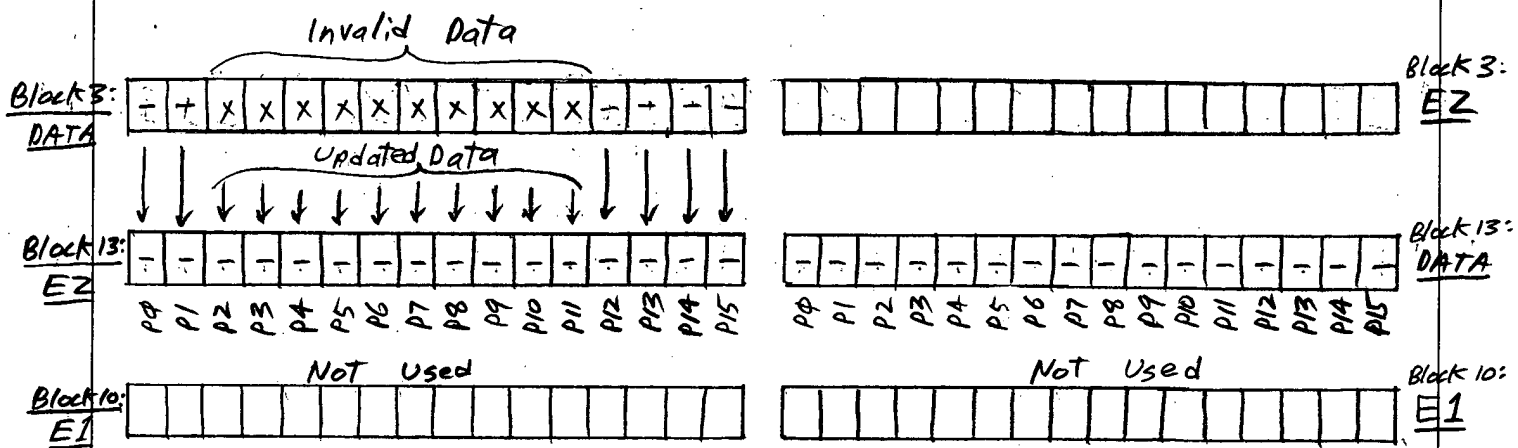

FIG. 11A

FIG. 11B

42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE
NATIONAL

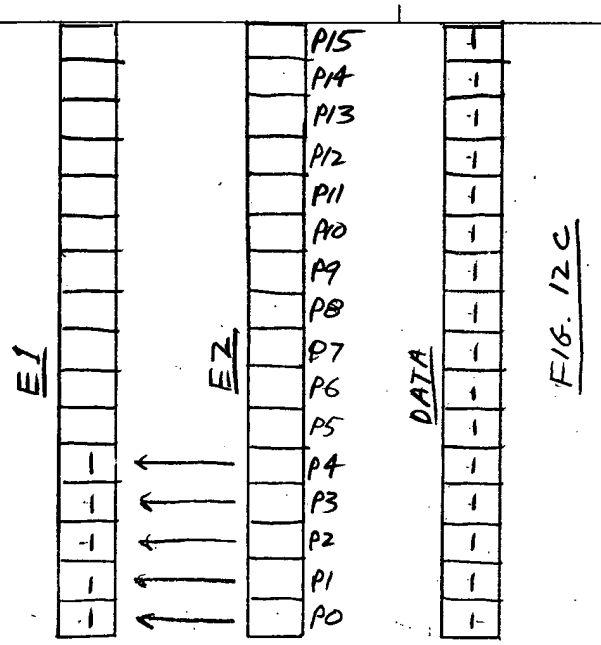

FIG. 12C

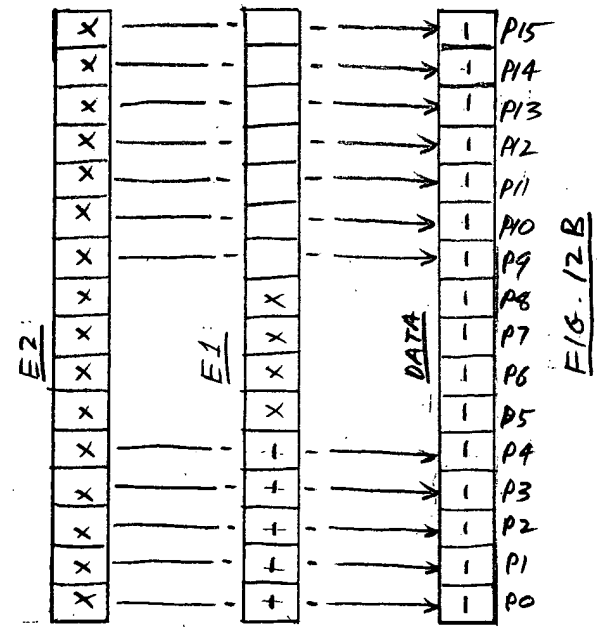

FIG. 12B

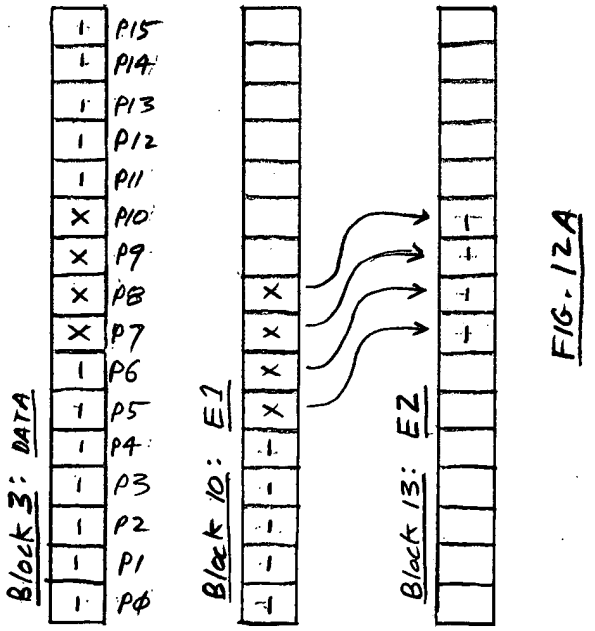

FIG. 12A

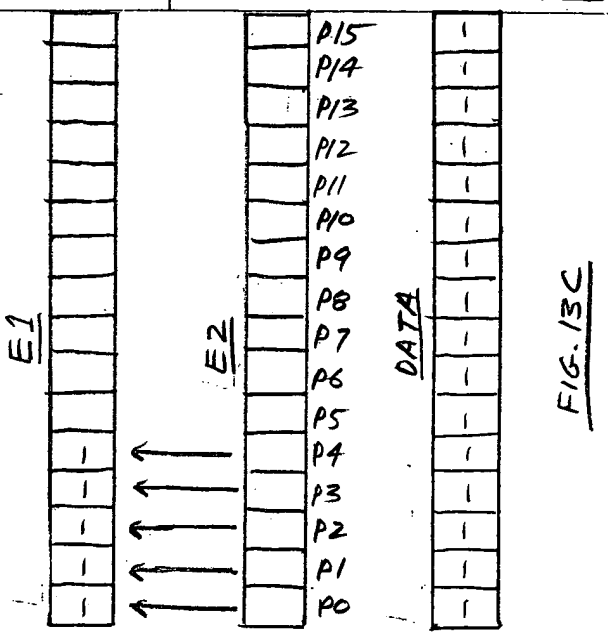

FIG. 13C

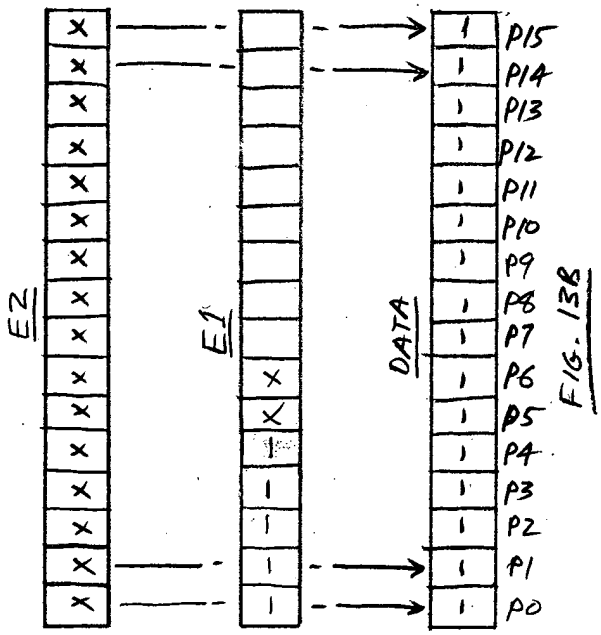

FIG. 13B

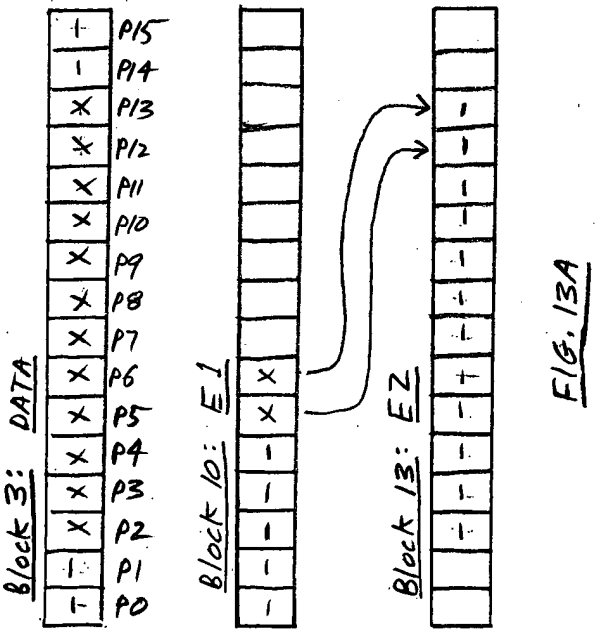

FIG. 13A

42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE
NATIONAL

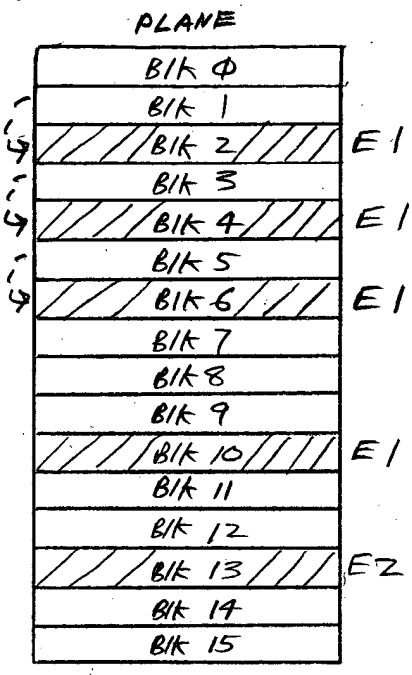

FIG. 14

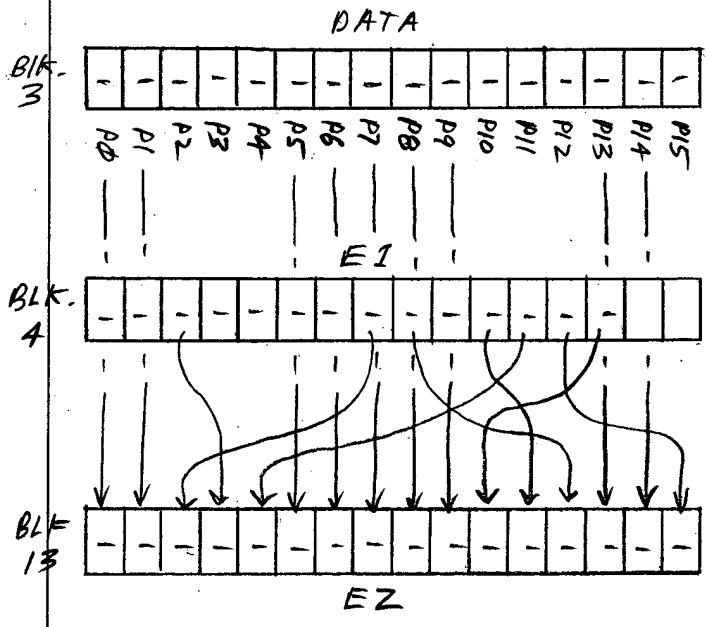

FIG. 15A

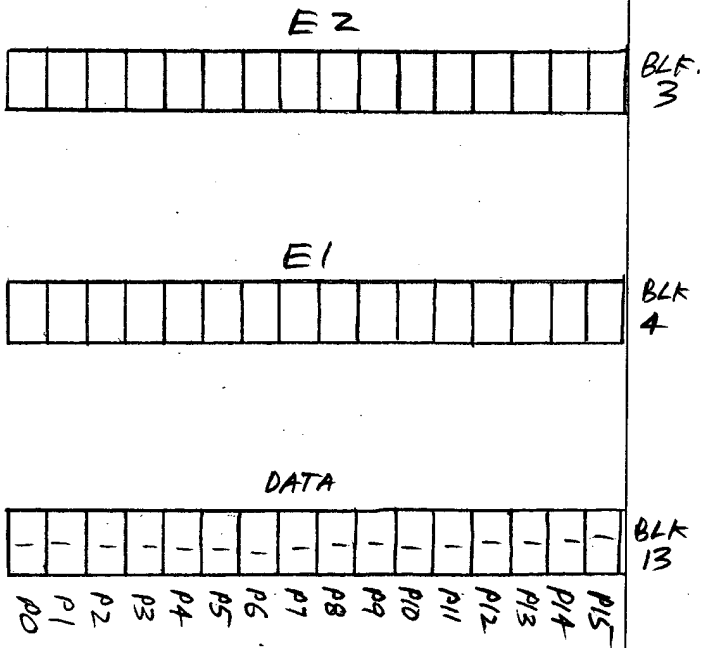

FIG. 15B

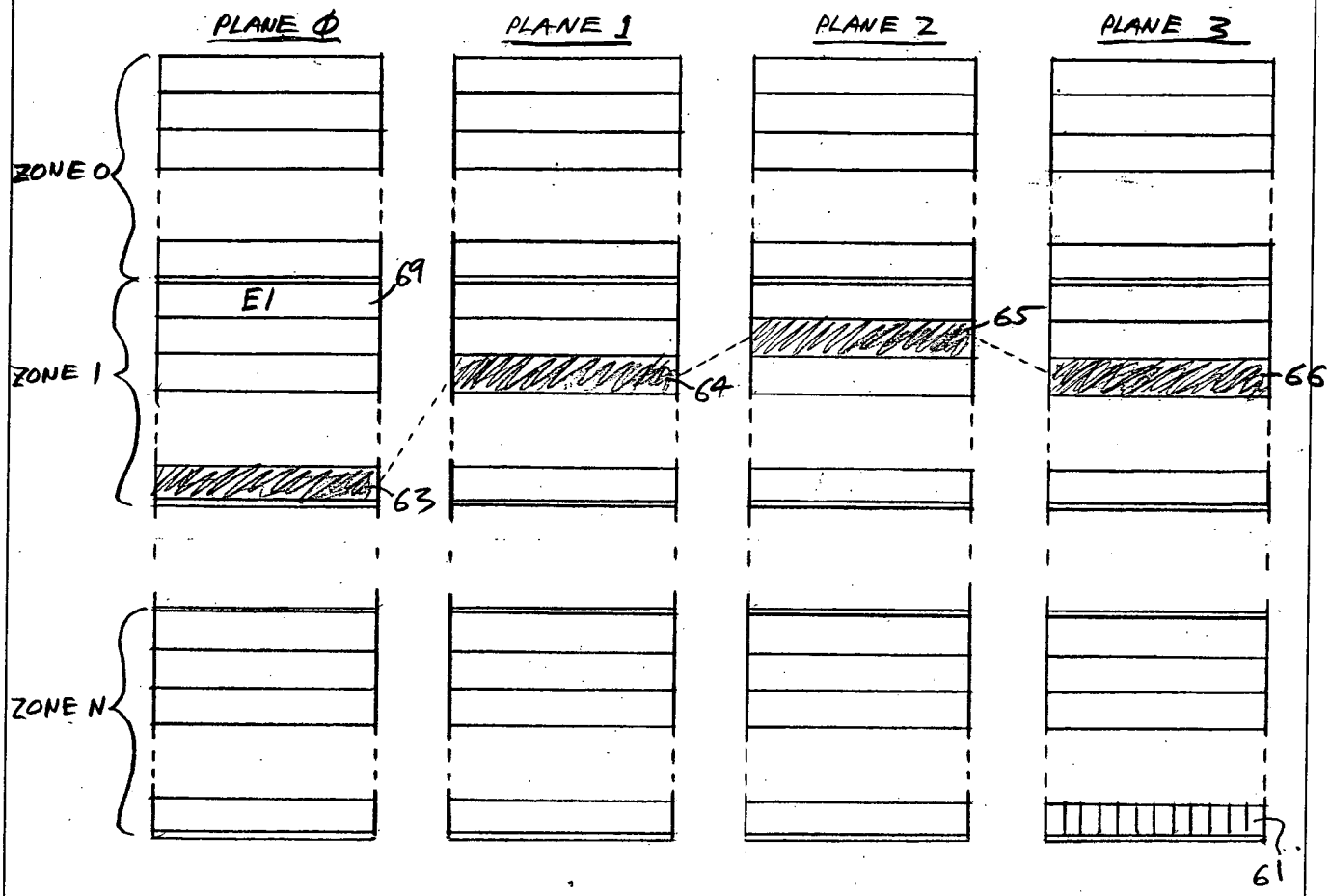
PLANE Φ
PLANE 1
PLANE 2
PLANE 3
ZONE 0
ZONE 1
ZONE N
E1
69
63
64
65
66
61

FIG. 16

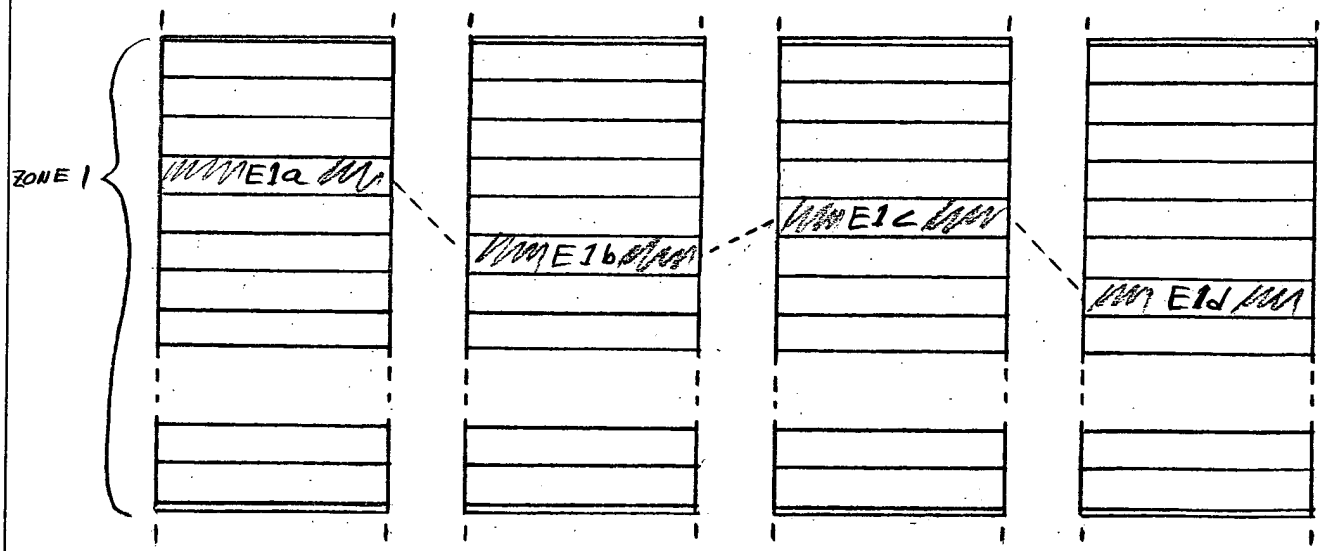
ZONE 1
E1a
E1b
E1c
E1d

FIG. 17

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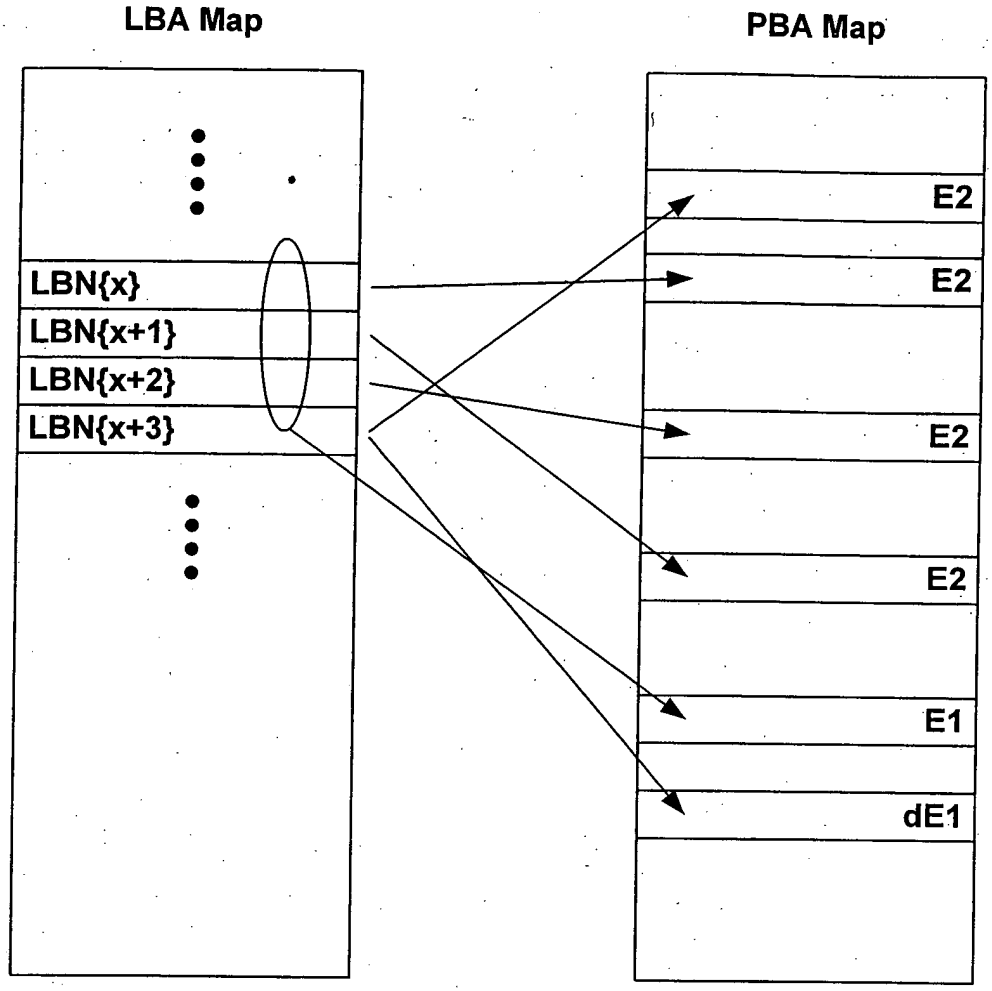

FIG. 18

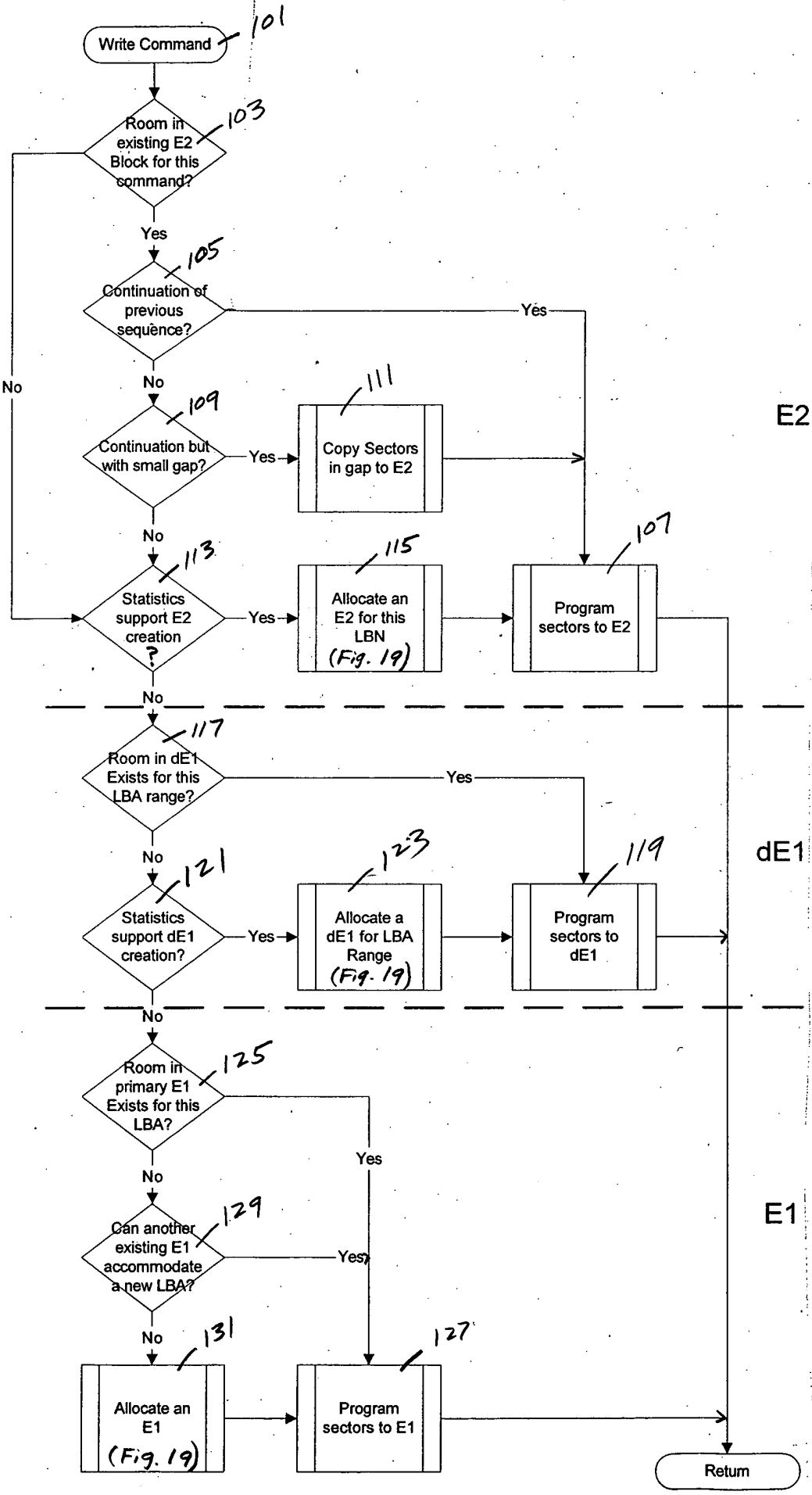
Write Command
101
Room in existing E2 Block for this command?
103
Yes
Continuation of previous sequence?
105
Yes
No
No
Continuation but with small gap?
109
Yes
Copy Sectors in gap to E2
111
E2
No
Statistics support E2 creation ?
113
Yes
Allocate an E2 for this LBN (Fig. 19)
115
Program sectors to E2
107
No
Room in dE1 Exists for this LBA range?
117
Yes
No
Statistics support dE1 creation?
121
Yes
Allocate a dE1 for LBA Range (Fig. 19)
123
Program sectors to dE1
119
dE1
No
Room in primary E1 Exists for this LBA?
125
Yes
No
Can another existing E1 accommodate a new LBA?
129
Yes
E1
No
Allocate an E1 (Fig. 19)
131
Program sectors to E1
127
Return

FIG. 19

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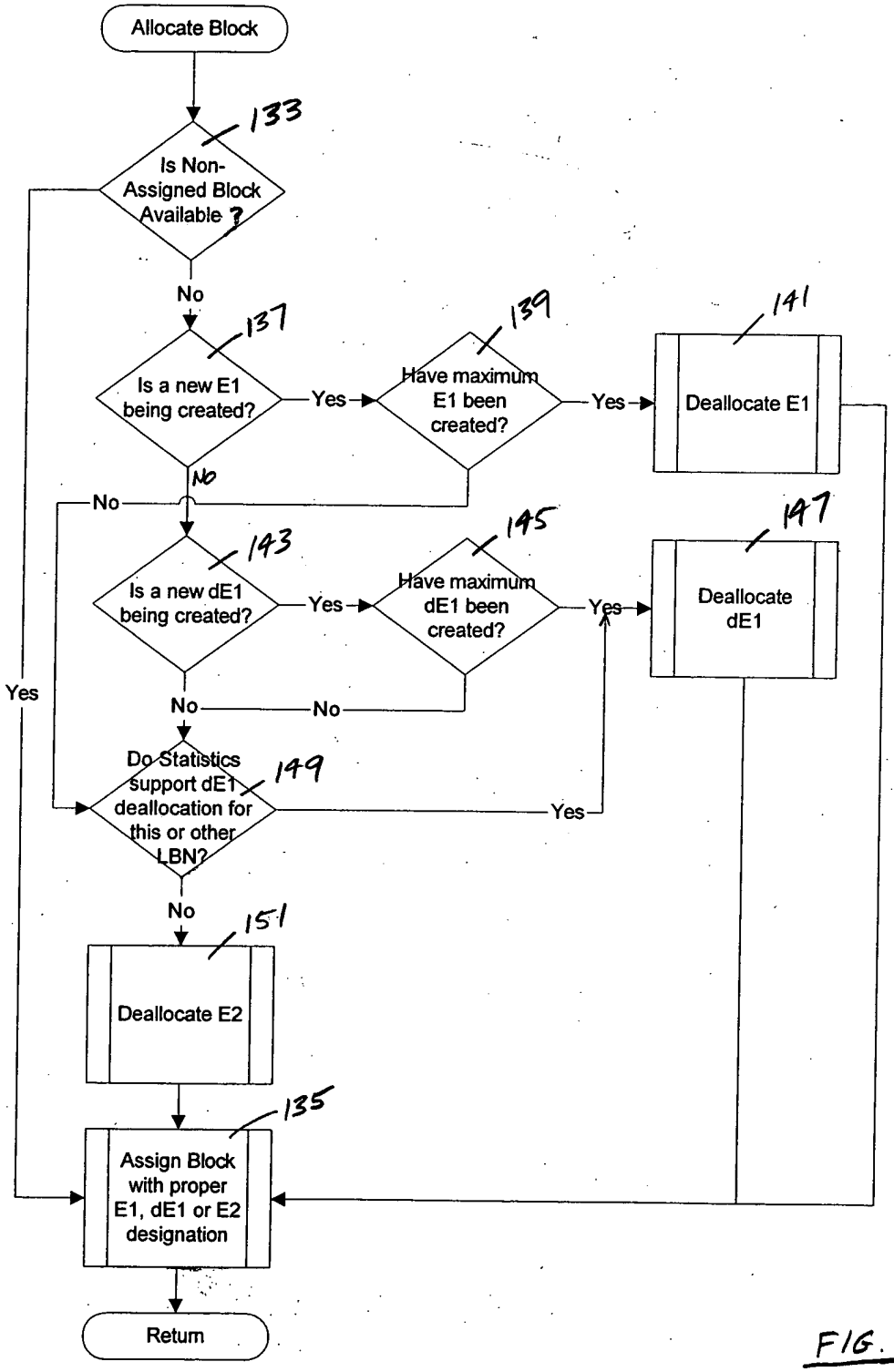

FIG. 20